

Sedlacek, J.

Incidence matrices for oriented graphs. p. 303.

CASOPIS PRO VYSTOVANI MATEMATIKY, Praha, Czechoslovakia. Vol. 84, no. 3, Aug. 1959.

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, no. 10, 1959-Oct.
Uncl.

Z/032/60/010/012/001/009
E073/E335

AUTHOR: Sedláček, J.

TITLE: Statistical Evaluation of Creep at Elevated Temperatures

PERIODICAL: Strojírnoství, 1960, Vol. 10, No. 12,
pp. 895 - 900

TEXT: In view of the fact that the Larson-Miller equation is frequently viewed with suspicion the author carried out a detailed statistical analysis of this equation, using extensive experimental material (Newhouse, D.L., Seguin, B.R., Lape, E.M. "Some 12 Per Cent Chromium Alloys for 1 000 F to 1 200 F Operation", 1954, X, Transactions of the ASME). The experimental material covers over 50 creep tests. The main results of the analysis can be briefly summarised thus:
1) In the regression form

$$E(\log t) = a_1 X_1 + a_2 X_2 - C \quad (3)$$

the Larson-Miller equation provides satisfactory
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information on the interrelation of the absolute temperature,
 $T, ^\circ K$, the initial stress, σ , kg/mm^2 and the time-to-failure
or the time when the deformation reaches a certain limit
value, t , hrs, since the correlation coefficient
 $|r_{Pc \log \sigma}|$ was always in excess of 0.80.

- 2) The dependence of the constant C on the stress or
on the temperature has not been proved but in comparisons
of the results of one series with another, the value differed
considerably, i.e. it is not a constant, as was assumed in
the original work of Larson and Miller ("A Time-Temperature
Relationship for Rupture and Creep Stress", 1952, VII,
Transactions of the ASME).
- 3) The interval of fluctuation of the t -values for the same
constants and the same temperature was considerable,
confirming the assumption of the author that the unreliability
of the Larson-Miller equation is not due to the fact that
its validity is limited but to the fact that internal creep
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processes are strongly influenced by random factors. Therefore, it can hardly be expected that other parametric equations would enable a higher reliability of extrapolation than the Larson-Miller equation.

4) The requirement for higher reliability of the extrapolated value does not mean rejection of the Larson-Miller equation but requires better organisation of the experiments to encompass not only the influence of the temperature T and the stress σ on the changes in the time t but also the consequences of random internal processes which manifest themselves by variance in the duration t during repeated tests for the same values of T and σ .

The author of this paper gives a new method of evaluating creep which takes into consideration the latter conclusions; the hitherto not considered factor of probable reliability is taken into consideration. To a chosen combination of the values of stress and temperature (σ, T) , a number of t_{pi} values will correspond, each of which can be

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$$T(C_p + \log t_p)10^{-3} = a_1(p) + a_2(p) \log \sigma \quad (2')$$

in which the coefficients C_p , $a_1(p)$ and $a_2(p)$ will be determined in such a way that the probability of exceeding the determined values $t_p^{(\sigma T)}$ from Eq. (2') by the values

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$t_s^{(\sigma, T)}$ is very small and that approximately the following probability should apply:

$$\left[t_s^{(\sigma, T)} < t_p^{(\sigma, T)} \right] \approx 1 - P \quad (5')$$

choosing P in advance in accordance with requirements. The creep properties according to Eq. (2') can be expressed more clearly by the condition that the number of fractures which may occur below the value $t_p^{(\sigma, T)}$ determined by means of Eq. (2') for a chosen (σ, T) in a series of tests under the same conditions would amount to a small fraction $(1 - P)$ of the total number of tests and with reference to a constant number of tests (100, 1 000, etc.) it should correspond to a certain insignificant

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number of fractures even in the case of thousands of tests. Thus, if it is desired that Eq. (2') should enable determining t-values with a reliability of 99.9%, the coefficients C_p , $a_1(p)$ and $a_2(p)$ must be so determined that, for the read off value t_p , a fracture below the value t_p should occur only in one case out of 1 000, the test conditions remaining equal. Thus, a new factor is introduced in evaluating creep which takes into consideration random influences. The proposed statistical interpretation in accordance with Eqs. (2') and (5') is based on the requirement that the tests should conform to a system, the general form of which is expressed as follows:

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$$\begin{aligned}
 & (\sigma_1, T_1) \dots t_{11} \leq t_{21} \leq \dots \leq t_{r_1 1} \leq t_0^{(1)} + \\
 & + (n_1 - r_1) \text{ unfinished tests,} \\
 & (\sigma_2, T_2) \dots t_{12} \leq t_{22} \leq \dots \leq t_{r_2 2} \leq t_0^{(2)} + \\
 & + (n_2 - r_2) \text{ unfinished tests,} \\
 & (\sigma_k, T_k) \dots t_{1k} \leq t_{2k} \leq \dots \leq t_{r_k k} \leq t_0^{(k)} + \\
 & + (n_k - r_k) \text{ unfinished tests}
 \end{aligned} \quad (6).$$

In this treatment much emphasis is placed on encompassing the main causes of the unreliability in evaluating the creep properties, i.e. the variance in t , and it is required that

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for each (G, T) combination the tests should be repeated a number of times. 16 creep tests are required as a minimum. The resulting method is based on the most frequently applied Larson-Miller equation, supplemented by the general theory of the service-life model which enables taking into consideration unforeseen random factors and delimiting the creep properties with a given degree of accuracy. The author also presents an introduction to a new concept of safety, based on the mathematical model of the service life. There are 2 figures, 1 table and 6 references. 3 Czech and 3 non-Czech.

ASSOCIATION: SVÚTT, Prague

Card 8/8

FIEDLER, Miroslav; SEDLACEK, Jiri

Anniversary of the Mathematical Olympics. Pokroky mat fyz astr 6
no.5:284-285 '61.

(Mathematics)

SEDLACEK, Jiri

A conversation with the champions of the mathematical Olympic games. Pokroky mat fyz astr 7 no.6:359 '62.

SEDLACEK, Jiri (Praha)

National congress of the Association of Czechoslovak Mathematicians and
Physicists. Gas pro pes mat 87 no.4:501 0 '62.

SEDLACEK, Jiri (Praha)

Program for the anniversary year of the Association of Czechoslovak
Mathematicians and Physicists. Cas pro pes mat 87 no.1:117-118
'62.

SEDLACEK, Jiri (Praha)

In commemoration of the 80th birthday of professor W. Sierpinski.
Cas pro pes mat 87 no.2:252 '62.

SEDLACEK, Jiri

On rational points in planes. Mat fyz cas SAV 11 no.4:256-262 '61.

1. Matematicky ustav, Ceskoslovenska akademie ved, Praha 1, Zitna 25.

SEDLACEK, Jiri (Praha); MANAS, Miroslav (Praha)

Tasks and problems. Cas pro pest mat 88 no.2:242 '63.

SEDLACEK, Jiri

Service stations. Inz stavby: Supl. Mechanizace no. 5: 74-75 '63.

L 33528-66 LJP(c)

ACC NR: AP6023477

SOURCE CODE: CZ/0026/66/011/001/0001/0009

AUTHOR: Liebl, Petr--Libl, P. (Prague); Sedlacek, Jiri--Sedlachek, Y. (Prague) ³⁶₃

ORG: Mathematics Institute, CSAV, Prague (Matematicky ustav CSAV)

TITLE: Transformation of a square matrix to a quasi-triangular form by means of graphs 16

SOURCE: Aplikace matematiky, v. 11, no. 1, 1966, 1-9

TOPIC TAGS: graphic technique, algorithm, matrix function, mathematic matrix, computer program

ABSTRACT: The article presents an algorithm for finding the quasicomponents (also called strong components) of any arranged graph. That problem arises in the solution of certain problems of an economic nature and applies in a certain sense to a more advantageous rearrangement of the rows and columns of a matrix of a high order. The program (written in Elliott-Autocode 803 A 103) is available from the Institute. Orig. art. has: 3 figures, 2 tables, and 1 formula. [Orig. art. in German] [JPRS]

SUB CODE: 12 / SUBM DATE: 30May64 / SOV REF: 001 / OTH REF: 002

Cord 1/1 80

0915

1437

MYSLIVECEK, J.; SEDLACEK, J.; VRKOCOVA, M.; DVORAK, J.; JENICKOVA, H.; SEMMELOVA, V.

Preparation of prothrombin. Cas. lek. cesk. 92 no.18:500-501 1 May 1953.
(CJML 24:5)

1. Of the Physiology Department of the Medical Faculty (Head--Prof.
F. Karasek, M.D.) of Charles University, Prague.

SEDLACEK, J.

MYSLIVECEK, J.; SEDLACEK, J.; REZAC, J.; TRAVNICEK, T.

New method of permanent canules for the blood vessels. Chekh.
fiziol. 3 no.1:96-98 1954.

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Karla IV v Prage.

(BLOOD VESSELS, surgery,

fixation of canule in blood vessels for continuous blood
taking in animals)

(TECHNOLOGY, medical,

fixation of canule in blood vessels for continuous blood
taking in animals)

MYSLIVECEK, J.; SEDLACEK, J.; SEDLACKOVA, M.

Some experiences with the method of salivary reflex conditions
in dogs. Cas. lek. cesk. 94 no.3:55-60 14 Jan 55.

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vyzshi nervove cinnosti
(REFLEX, CONDITIONED
salivary, in dogs)

SEDLACEK, J.

V-3

CZECHOSLOVAKIA/Human and Animal Physiology - Blood.

Abs Jour : Ref Zhur - Biol., No 2, 1958, 8496

Author : J. Myslivecek and J. Sedlacek

Inst : -

Title : The Influence of the Cerebral Cortex on Blood Clotting

Orig Pub : Univ. carolina. Med., 1956, 2, No 1, 3-23

Abstract : When massive blood loss was imitated in dogs a conditioned-reflex lengthening of clotting time was obtained as a result of thinning the plasma. In the generation of the conditioned reflex to injection of heparin, the conditioned reflex of lengthening clotting time (as a result of liberating the albumin component in the organism) was transformed at a definite stage into a reflex reducing clotting time, and then again into a reflex lengthening clotting time. When a hypertonic solution of NaCl was injected, a conditioned reflex was observed in which clotting time was shortened. These conditioned reflexes are

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CZECHOSLOVAKIA/Human and Animal Physiology - Blood.

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Abs Jour : Ref Zhur - Biol., No 2, 1958, 8496

CIA-RDP86-00513R001447620002-5

subject to extinction and differentiation and can be generated in stereotype.

Card 2/2

SEDLACEK, J.

CZECHOSLOVAKIA / Human and Animal Physiology. Metab-

T

ABRAHAMOVIC, M., MUDr.; SEDLACEK, J., MUDr.

Case of cured thrombosis of the cavernous sinus with simultaneous septic meningitis. Cesk. otolar. 5 no.5: 281-284 Oct 56.

1. Z ORL kliniky lek. fak. hygienicke v Praze 12, prednosta prof. Dr. Vlad. Hlavacek Z ocni kliniky lek. fak. hygienicke v Praze 12, prednosta prof. Dr. J. Janku.

(SINUS THROMBOSIS, complications,
cavernous sinus thrombosis with meningitis, cure (Cz))
(MENINGITIS, complications,
cavernous sinus thrombosis, cure (Cz))

SEDLACEK, J.

Effect of cerebral inhibition on blood sugar levels. Sborn. lek. 59
no.6:181-187 June 57.

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v Praze. Pracovni skupina vyvoje nervovych funkci. J. S., Fysiologicky
ustav, Albertov, Praha 2.

(BLOOD SUGAR,

eff. of negative conditioned reflex in dogs, cortical mechanisms
(Cz))

(REFLEX, CONDITIONED

eff. of negative conditioned reflex on blood sugar levels in
dogs, cortical mechanism (Cz))

SEDLACHEK, Y. [Sedlacek, J]

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(MIRA 11:8)

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meditsinskogo fakul'teta Prazhskogo universiteta.

(BLOOD SUGAR,

eff. of conditioned reflexes (Rus))

(REFLEX, CONDITIONED,

eff. of positive food conditioned reactions & inhib,
conditioning on glycemic reactions in dogs (Rus))

SEDLACEK, Jindrich (Fysiologicky ustav, Albertov 5, Praha 2.)

The relationship between higher nervous activity and carbohydrate metabolism in functional disturbances of the cerebral cortex in dogs. Sborn. lek. 60 no.3:88-95 Mar 58.

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(CEREBRAL CORTEX, physiology

eff. of exper. funct. disord. on carbohydrate metab. in dogs (Cz))

(BLOOD SUGAR, physiology

eff. of exper. funct. disord. of cerebral cortex on levels in dogs (Cz))

(HEXOSIS, metabolism

eff. of exper. funct. disord. of cerebral cortex in dogs (Cz))

SEDIACEK, Jindrich (Fysiologicky ustav, Albertov 5, Praha 2.)

The importance of dynamic stereotypes in the regulation of blood sugar.
Sborn. lek. 60 no.4:103-113 Apr 58.

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v Praze Pracovni skupina vyvoje nervovych funkci.

(BLOOD SUGAR, physiology

regulation, role of dynamic changes in cerebral cortex (Cz))

(CEREBRAL CORTEX, physiology

dynamic changes & role in regulation of blood sugar (Cz))

SEDIACEK, Jindrich (Praha 2, Albertov 5)

Analysis of pathological conditions of the cerebral cortex. Sborn.
lek. 60 no. 7-8:193-203 July 58.

1. Fysiologicky ustav fakulty vseobecneho lekarstvi university
Karlovy v Praze, prednosta prof. Dr. F. Karasek. Pracovni skupina
vyvoje nervovych funkci.

(CEREBRAL CORTEX, physiology
exper. develop. of funct. disord. in dogs (Cz))

SEDIACEK, Jindrich (Albertov 5, Praha 2)

The influence of some physical and physico-chemical factors on higher nervous activity in dogs. Sborn. lek. 60 no.7-8:204-210 July 58.

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(REFLEX, CONDITIONED,
eff. of phys. & physico-chem. factors on cond. salivary reflex
in dogs (Cz))

(REFLEX,
unconditioned salivary reflex in dogs, eff. of phys. & physico-
chem. factors (Cz))

SEDIACEK, Jindrich

The influence of hexoses on higher nervous activity in dogs. Sborn. lek. 60 no.7-8:217-226 July 58.

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(REFLEX, CONDITIONED,

eff. of hexoses on positive & negative cond. reflexes in dogs (Cz))

(HEXOSES, effects

on positive & negative conditioned reflexes in dogs (Cz))

SEDIACEK, Jindrich

The influence of glucose on the development of cortical inhibition.
Sborn. lek. 60 no.7-8:227-234 July 58.

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v Praze, prednosta prof. Dr. F. Karasek. Pracovni skupine vyvoje nervovych
funkci.

(GLUCOSE, effects

on develop. of cerebral cortical inhib. in dogs (Cz))

(CEREBRAL CORTEX, physiology

eff. of glucose on develop. of cortical inhib. in dogs (Cz))

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"Report on a study trip to the USSR"

Ceskoslovenska Fysiologie. Praha, Czechoslovakia. Vol. 8, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

SEDLACEK, J.

"A conference on the problems of physiology and pathology of the nervous system of animals and man in their different stages of evolution, Moscow, May 7-9, 1958"

Ceskoslovenska Fysiologie. Praha, Czechoslovakia. Vol. 8, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

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Comparative studies on the development of reflex activity. Cesk. fysiол.
8 no.3:243-244 Apr 59.

1. Fysiologicky ustav fak. vseob. lek. KU, Praha. Predneseno na III.
fysiologickych dnech v Brne, dne 15. 1. 1959.

(REFLEX,

develop. of reflex activity in animals (Cz))

MYSLIVECEK, J.; SEDIACEK, J.

Induction of conditioned reflexes during reversal of the order of stimuli (retrograde conditioning) in dogs. Cesk. fyziol. 8 no.4: 327-328 July 59.

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Development of reflex activity in chick embryo. Cesk. fysiол.
8 no.5:432-433 S '59

1. Fysiologicky ustav Fak. vseob. lek. KU, Praha.

(REFLEX)

(EMBRYO)

SEDLACEK, Jindrich

Development of specialized reflexes in rats during postnatal ontogenesis.
Sborn. lek. 61 no.11-12:345-351 Nov 59.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University Karlovy
v Praze, prednosta prof. dr. F. Karasek.
(REFLEX)

SEDIACEK, Jindrich

Role of the neopallium in the development of reflex activity in rats. Shorn. lek. 61 no.11-12:352-358 Nov 59.

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(CEREBRAL CORTEX, physiol.) (REFLEX)

SEDIACEK, Jindrich

Development of specialized reflexes in rabbits during postnatal ontogenesis. Sborn. lek. 61 no. 11-12: 359-365 Nov 59.

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(REFLEX)

SEDIACEK, Jindrich

Development of specialized reflexes in chicks. Sborn. lek. 61 no.
11-12:366-372 Nov 59.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University
Karlovy v Praze, prednosta prof. dr. F. Karasek.
(REFLEX)

SEDLACEK, J.

Development of specialized reflexes in chicks. Cesk. fysiolo. 9
no.1:49 Ja 60

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(REFILEK)

SEDLACEK, J.; SVETLOVA, M.

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specialised reflexes. Cesk.fysiol. 9 no.3:261-262 My '60.

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SEDLACEK, Jindrich

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62 no.1:23-30 Ja '60.

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Karlovy v Praze, prednosta prof.dr. F. Karasek.
(REFLEX)
(MOVEMENTS)

SEDLACEK, J.; VRABEC, Fr.

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no.3:232-237 My '61.

1. Oční klinika LFHKU, Praha 12.

(ANGIOMATOSIS pathol) (CHOROID pathol)

SEDLACEK, J.

Mechanisms of the development of specialized reflexes. I. The role of specialized reflexes as unconditioned stimuli. *Activ. nerv. sup.* 3 no.3:263-266 '61.

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(REFLEX CONDITIONED) (REFLEX)

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(REFLEX CONDITIONED)

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(CENTRAL NERVOUS SYSTEM physiol) (REFLEX physiol)

SEDLACEK, J.

1. The first part of the document is a letter from the author to the editor of the journal. The letter is dated 10/10/77 and is addressed to the editor of the journal. The letter is signed by the author, J. Sedlacek.

2. The second part of the document is a letter from the editor to the author. The letter is dated 10/10/77 and is addressed to the author, J. Sedlacek. The letter is signed by the editor.

3. The third part of the document is a letter from the author to the editor. The letter is dated 10/10/77 and is addressed to the editor of the journal. The letter is signed by the author, J. Sedlacek.

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8. The eighth part of the document is a letter from the editor to the author. The letter is dated 10/10/77 and is addressed to the author, J. Sedlacek. The letter is signed by the editor.

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10. The tenth part of the document is a letter from the editor to the author. The letter is dated 10/10/77 and is addressed to the author, J. Sedlacek. The letter is signed by the editor.

SEDLACHEK, G.[Sedlacek, J.]

Mechanisms of the development of specialized reflexes IV. The role of signaling factors. *Activ. nerv. sup.* 4 no.1:24-27 '62.

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(REFLEX)

SEDLACEK, J.; HLAVACKOVA, V.

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(CENTRAL NERVOUS SYSTEM physiol)
(REFLEX CONDITIONED)

SEDLACEK, J.

Temporary connections in chick embryos. *Physiol. Bohemoslov.* 11
no.4:300-306 '62.

1. Department of Pediatric Physiology, Institute of Physiology, Faculty
of General Medicine, Charles University, Prague.
(EMBRYO) (REFLEX CONDITIONED)

SEDLACEK, J.

Notes on the characteristics of the temporary connection in chick embryos. *Physiol. Bohemoslov.* 11 no.4:307-312 '62.

1. Department of Pediatric Physiology, Institute of Physiology, Faculty of General Medicine, Charles University, Prague.
(REFLEX CONDITIONED) (EMBRYO)

SEDLACEK, J.

Functional characteristics of the centre of the unconditioned reflex in elaboration of a temporary connection in chick embryos. *Physiol. Bohemoslov.* 11 no.4:313-318 '62.

1. Department of Pediatric Physiology, Institute of Physiology,
Faculty of General Medicine, Charles University, Prague.
(REFLEX) (REFLEX CONDITIONED) (EMBRYO)

SEDLACEK, J.; MACEK, O.

Methodology of sensory actography. Cesk. fyziol. 11 no.4:375-377 '62.

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lek. UK, Praha.

(FETUS physiolo) (PHYSIOLOGY equip & supplies)
(MOVEMENT)

KOLAR, J.; BEK, V.; VRABEC, R.; MARESOVA, J.; SCHWANK, R.; SEDLACEK, J.;
KUCERA, M.

Roentgen findings in angioma and other vascular abnormalities. Cesk.
rentgen 16no.6:380-394 D '62.

1. Radiologicka klinika fakulty vseobecneho lekarstvi Karlovy university
v Praze, prednosta prof. dr. V. Svab, DrSc. Klinika plasticke chirurgie
hygienicke fakulty Karlovy university v Praze, prednosta akademik
F. Burain II. dermatovenerologicka klinika fakulty vseobecneho lekarstvi
Karlovy university v Praze, prednosta prof. dr. J. Obrtl.
(HEMANGIOMA) (ANGIOMATOSIS)

VRABEC, Fr.; ~~SEDLACEK, J.~~; VRABEC, J.

Histochemical changes of the human cornea following roentgen-irradiation.
II. Cesk. oftal. 18 no.6:407-410 N '62.

1. Očni klinika lek. fak. hyg. University Karlovy v Praze, prednosta
doc. dr. Fr. Vrabec I. očni klin. fak. vseob. lek. University Karlovy
v Praze, prednosta prof. dr. E. Dienstbier.

(CORNEA)	(ORBITAL NEOPLASMS)	(EYE NEOPLASMS)
(RADIOTHERAPY)		(RADIATION INJURY)

SEDLACEK, J.

Dictyoma retinae. Cesk. oftal. 18 no.6:419-421 N '62.

1. Oční klinika lek. fak. hyg. University Karlovy v Praze, přednosta
doc. dr. Fr. Vrabec.

(NEUROEPITHELIOMA)

SEDLACEK, J.

The laws of ontogenesis of reflex activity. Sborn. lek. 64 no.5:
155-162 My '62.

1. Oddeleni fyziologie detskeho veku fyziologickeho ustavu fakulty
vseobecneho lekarstvi University Karlovy v Praze.

(REFLEX physiol) (AGING physiol)

SEDLACEK, Jindrich; HLAVACKOVA, Vladimira; SVEHLOVA, Miroslava

Consideration on the problem of the development of inhibition from the earliest stages of ontogenesis. Cas. lek. cesk. 101 no.41:1222-1224 12 0 '62.

1. Oddeleni fyziologie detskeho veku, vedouci doc. dr. J. Sedlacek, Fyziologicky ustav fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. F. Karasek, DrSc.

(REFLEX CONDITIONED) (INFANT NEWBORN)
(GENETICS HUMAN)

KVICALA, V.; ODVARKOVA, J.; SEDLACEK, J.; VACEK, J.

Neurogenic etiology of Dupuytren's contracture. Part I. Acta chir. plast. 5 no.3:227-234 '63.

1. Neurological Clinic, Charles University, Prague (Czechoslovakia) Director: Academician K. Henner Clinic of Plastic Surgery, Charles University, Prague Director: Academician F. Burian.

(DUPUYTREN'S CONTRACTURE)
(CENTRAL NERVOUS SYSTEM DISEASES)
(PERIPHERAL NERVE DISEASES)
(BRAIN DISEASES) (SPINAL DISEASES)
(CERVICAL VERTEBRAE) (NUTRITION DISORDERS)

KVICALA, V.; ODVARKOVA, J.; SEDLACEK, J.; VACEK, J.

Neurogenic etiology of Dupuytren's contracture. Part II. Acta
chir. plast. 5 no.3:235-244 '63.

1. Neurological Clinic, Charles University, Prague (Czechoslovakia) Director: Academician K. Hanner Clinic of Plastic Surgery, Charles University, Prague Director: Academician F. Burian.

(DUPUYTREN'S CONTRACTURE)
(PERIPHERAL NERVE DISEASES)
(ELECTROMYOGRAPHY) (SKIN)
(BODY TEMPERATURE) (ELECTROENCEPHALOGRAPHY)
(GALVANIC SKIN RESPONSE)

CZECHOSLOVAKIA

SEDLACEK, J. and MARSALA, J.; Pediatric Physiology Section of the Department of Physiology (oddeleni fyziologie detskeho veku, Fysiologicky ustav) and Department of Anatomy (Anatomicky ustav) of Faculty of General Medicine of Charles University (Fakulta vseobecneho lekarstvi KU,) Prague.

"Localization of Centers of Specialized Reflexes."

Prague, Activitas Nervosa Superior, Vol 5, No 3, July 63; pp 237-242.

Abstract [English summary modified]: In 33 28-day old rabbit fetuses, specialized reflexes to localized skin stimuli failed to appear following any of 3 different types of mesencephalic lesions, indicating integrative role of mesencephalic neurons. Results are tabulated in detail. Three anatomical diagrams, 4 tables; 5 Western, 4 Soviet and 3 Czech references.

1/1

CZECHOSLOVAKIA

SEDLACEK, J., and MARSHALA, J. [See affiliation above.]

APPROVED FOR RELEASE: 08/23/2000 **CIA-RDP86-00513R001447620002-5**
"Development of Specialized Reflexes in Rabbit Fetuses with Mesencephalic Lesions."

Prague, Activitas Nervosa Superior, Vol 5, No 3, July 63; pp 243-249.

Abstract [English summary modified]: Study in 64 rabbits operated on the 20th day of fetal life (of total of 106 so operated, 28 succumbed, another 14 were eliminated from detailed study for other reasons;) resecting connections between neopallium and rest of cerebrum; study specialized (washing, licking, combing, shaking) reflexes between 21st and 29th day of (extrauterine) life. Results indicate that neopallium affects ontogenesis of reflectory activity at very early period of life already. Four tables; 8 Soviet, 8 Western and 7 Czech references.

1/1

KOLAR, J.; BEK, V.; VRABEC, R.; MARESOVA, J.; SCHWANK, R.;
SEDLACEK, J.; KUCERA, M.

X-ray findings in angiomas and other vascular malformations.
Rev czech med 9 no. 2:103-125 '63.

1. Radiological Clinic (Director: Prof. V. Svab, M.D., Sc.)
Second Dermatological Clinic (Director: Prof. K. Obrtel,
M.D., D. Sc.) Faculty of General Medicine and Clinic of
Plastic Surgery (Director: Academician F. Burlan),
Medical Faculty of Hygiene, Charles University, Prague.
(HEMANGIOMA) (SKIN NEOPLASMS) (ABNORMALITIES)
(RADIOGRAPHY) (VASCULAR DISEASES)

SEDLACEK, Jindřich [Sedlacek, Jindrich]

Problems in ontogenetic formation of the mechanism of temporary connection. Acta Univ. Carol. [med.] (Praha) 9 no.4: 265-317 '63

1. Fiziologicheskij institut terapevticheskogo fakul'teta Karlova universiteta v Praze (zav. - prof., Dr. F. Karasek).

CZECHOSLOVAKIA

SEDLACEK, J.; Department of Physiology of Faculty of General Medicine of Charles University (Fysiologicky ustav fakulty vseobecneho lekarstvi Karlove University,) Prague.

"Comments for Discussion at the Bratislava Meeting on Education."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 4, July 1963; pp 296--297.

Abstract: Main criticisms are: actual decrease of physiology study time plus interference by Biochemistry, Microbiology, nursing, Russian, political economics and ROTC; lack of coordination between physiology and clinical chemistry; excessive stress on Latin and Russian; and cleavage between values taught in social and physical sciences.

BEK, V.; KOLAR, J.; VRABEC, R.; SEDLACEK, J.; KUCERA, M.;
SCHWANK, R.; MARESOVA, J.; TRAPL, J.

Clinical importance and therapeutic principles of hemangioma
in childhood. Cesk. pediat. 18 no.9:798-809 S '63.

1. Radiologicka klinika fakulty vseobecneho lekarstvi KU v
Praze, prednosta prof. dr. V. Svab, DrSc. Klinika plasticke
chirurgie lekarske fakulty hygienicke KU v Praze, prednosta
prof. dr. V. Karfik, DrSc. II kozni klinika fakulty vseobecneho
lekarstvi KU v Praze, prednosta prof. dr. J. Obrtel, DrSc.
(HEMANGIOMA) (NEOPLASM RADIOTHERAPY)
(NEOPLASM REGRESSION, SPONTANEOUS)
(SURGERY, OPERATIVE)

SEDLACEK, J.; SEDLACKOVA, M.; SVEHLOVA, M.

Development of the palpebral reflex. II. Development in children. Sborn. lek. 65 no.8/9:273-278 Ag '63.

(REFLEX) (EYELIDS) (INFANT, PREMATURE)

SEDLACEK, J.

Development of some EEG parameters in chick embryos. Sborn.
lek. 65 no.11:347-354 N°63.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University
Karlovy v Praze, prednosta prof. dr. F.Karasek, DrSc.

*

SEDLACEK, J.

Attempt at determining localisation of temporary connection
in foetal chicken. Activ. nerv. sup. 6 no.1:41 '64

*

SEDLACEK, Jindrich; DOSKOČIL, Milan; OLŠANSKY, Petr; KAPR, Jaroslav;
FRENZL, Bohumír

Comments on the problem of biological and social determinism
in the evolution of man. Acta Univ. Carol. [sed.] (Praha) 10
no.8:607-620 '64

1. Fysiologický ústav fakulty všeobecného lékařství University
Karlovy v Praze (prednosta prof. MUDr. F.Karasek, DrSc.);
Anatomický ústav fakulty všeobecného lékařství University Kar-
lovy v Praze (prednosta prof. MUDr. RNDr. L.Borovansky, DrSc.);
Katedra dialektického a historického materialismu fakulty
všeobecného lékařství University Karlovy v Praze (vedoucí doc.
RSDr. J.Pranosil, CSc.) a Biologický ústav fakulty všeobec-
ného lékařství University Karlovy v Praze (prednosta prof.
MUDr. RNDr. B.Sekla, DrSc.)

SEDLACEK, J.; HLAVACKOVA, V.; SVEHLOVA, M.

New findings on the formation of the temporary connection in the prenatal and perinatal period in the guinea-pig. *Physiol. Bohemoslov.* 13 no.3:268-273 '64

1. Department of Physiology, Faculty of General Medicine, Charles University, Prague.

SEDLACEK, J.; VOTAVA, J.

Significance of motor activity for development of the chick embryo. *Physiol. Bohemoslov.* 13 no.3:274-280 '64

1. Department of Physiology, Faculty of General Medicine, Charles University, Prague.

SEDLACEK, J.

Further findings on the conditions of formation of the temporary connection in chick embryos. *Physiol. Bohemoslov.* 13 no.4:411-420 '64.

Temporary connections in chick embryos and vagal deafferentation. *Ibid* :421-424

1. Institute of Physiology, Faculty of General Medicine, Charles University, Prague.

SEDLACEK, J.

Effect of EEG depression on the temporary connection in chick embryos. *Physiol. Bohemosl.* 13 no.5:510-515 '64.

1. Department of Physiology, Faculty of General Medicine,
Charles University, Prague.

SEDLACEK, J.

Attempt at an analysis of bradycardia after ligation of the umbilicus in the rat fetus. Sborn. lek. 67 no.2:55-64 P'65.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Karasek, DrSc.).

L 12961-66

ACC NR: AP6005626

SOURCE CODE: CZ/0079/65/007/002/0122/0123

AUTHOR: Sedlacek, J.; Macek, O.; Svehlova, M.; Stastny, F.

ORG: Faculty of General Medicine, Institute of Physiology

TITLE: Development of the central nervous system in pre-natal life [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 122-123

TOPIC TAGS: biologic reproduction, central nervous system, experiment animal, brain, respiratory system, neuron, neurophysiology

ABSTRACT: Three problems were studied: 1. The development of a steady potential of brain hemispheres; this was studied in chick embryos, and it was found that the polarization of the brain hemispheres increased significantly during the second half of incubation. 2. The development of high-frequency impedance of brain tissue. This was studied in guinea pig fetuses; the changes were found to be very complicated. The results were found to be close to those for new-born guinea pigs. 3. The development of activity of respiratory centers. The experiments were made on rats. Only after 21st day of foetus life was it possible to increase the respiratory rate. In young rats recording of activity of bulbar reticular neurons was not successful before the 12th day; at that age response is similar to that of

Card 1/2

L 12961-66

ACC NR: AP6005626

adult animals. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 2/2 HW

SEDLACEK, J.; MACEK, O.

D.C. potential and high frequency impedance of the cerebral hemispheres in guinea-pig fetuses in the perinatal period. Physiol. Bohemoslov. 14 no.4:371-378 '65.

1. Institute of Physiology, Faculty of General Medicine, Charles University, Prague. Submitted November 20, 1964.

SEDLACEK, J.

Possibility of the application of ophthalmic drugs with the use of gel contact lenses. Cesk. oftal. 21 no.6:509-512 N 1965.

1. Ceni oddeleni Obvodního ústavu národního zdraví v Prostějově (vedoucí MUDr. J. Sedlacek).

SEDLACEK, J.

Correction of aphakia with a gel contact lens. Cesk. oftal.
22 no.1:76-79 Ja ! 66

1. Očni oddeleni Obvodniho ustavu narodniho zdravi v
Prostejove (vedouci - MUDr. J. Sedlacek).

CZECHOSLOVAKIA

LEJSEK, K., SEDLACEK, J., VORISEK, V; Chair of Chemistry and Pathological Physiology, Medical Faculty, Charles University, (Katedra Chemie a Patologicke Fysiologie Lek. Fak. KU), Hradec Kralove.

"Oxygen Requirements of Lung and Liver Tissue After Diphosgene Poisoning."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 77

Abstract: Experiments with sections of rabbit and frog organs were conducted. No difference of oxygen consumption due to poisoning was found; usage of glucose by the tissue did not change as a result of the poisoning. The lung parenchyma is heavily damaged by the poison. 1 Western, 1 East German, 1 Polish reference. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65.

1/1

CZECHOSLOVAKIA

SIMEK, J., LEJSEK, K., SEDLACEK, J., MELKA, J., HAIS, I.M;
Chair of Physiology, Chair of Medical Chemistry, Chair of
Experimental Physiology, Medical Faculty, Charles University,
(Katedra Fysiologie, Katedra Lekarske Chomie, Katedra Experiment-
alni Fysiologie, Lek. Fak. KU), Hradec Kralove.

"Respiration Metabolism of Sections and Succinate Oxidase Activity
of Isolated Mitochondria in Livers of Rats of Different Ages After
Partial Hepatectomy."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 130-131

Abstract: Experiments conducted on 36 male rats aged 3 to 24
months are described. Partial hepatectomy resulted in an increase
of oxygen consumption, the succinate oxidase activity was
decreased. Older rats that underwent a removal of 65-70% of
the liver were able to modify their energy and material metab-
olism to such an extent that a nearly normal liver regeneration
took place. 1 Figure, 5 Western, 1 Czech reference. Submitted
at the Full Meeting of the Physiological Section of the Czecho-
slovak Medical Society of J.E.Purkyne at Hradec Kralove, 8 Sep 65.

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CZECHOSLOVAKIA

SIMEK, J., LEJSEK, K., SEDLACEK, J., MELKA, J., HAIS, I.M;
Chair of Physiology, Chair of Medical Chemistry, Chair of
Experimental Physiology, Medical Faculty, Charles University
(Katedra Fysiologie, Katedra Lekarske Chemie, Katedra Experiment-
alni Fysiologie Lek. Fak. KU), Hradec Kralove.

"Respiration Metabolism of Liver Slices and Succinate Oxidase
Activity of Isolated Liver Mitochondria in Rats Irradiated With
1400r Following Partial Hepatectomy."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 132-133

Abstract: The weight of the liver was reduced 65-70% by
hepatectomy, and the irradiation took place 6 hours later. Samples
were taken 42 hours after irradiation; during this period no food
was given to the rats. Irradiation did not influence the
changes in composition of the liver and its metabolism modifica-
tion resulting from the hepatectomy. 1 Figure, 5 Western,
2 Czech references. Submitted at the full Meeting of the
Physiological Section of the Czechoslovak Medical Society of
J.E.Purkyne, at Hradec Kralove, 6 Oct 65.

1/1

DOBRKOVSKY, M.; SEDIACEK, J.; VRABEC, R; KOJAR, J.

Clinical aspects of frostbite. Cesk. fysiolo. 7 no.4:335-337 July 58.

1. Klinika plasticke chirurgie, oddeleni pro lecbu popalenyh, Klinika radiologicka, Praha.

(FROSTBITE,
clin. aspects (Cz))

PARKAS, I.; PARA, M.; SEDLACEK, J.

Experiences in the Prague plastic surgery clinic & treatment of congenital ptosis by the Reese-Burian method. Cesk. fysiol. 14 no.4: 283-290 Aug 58.

1. Klinika plast. chirurgie (prednosta akad. Z. Burian) a ocní klinika (prednosta prof. J. Janku).
(EYELIDS, dis.
congen. ptosis, surg., Reese-Burian method (Cz))

SEDLACEK, Jaroslav (Praha 7, Delnicka 71.)

Open treatment of burns. Rozhl. chir. 37 no.6:382-392 June 58.

1. Klinika plasticke chirurgie v Praze, oddeleni pro lecbu popalenyh,
prednosta akademik F. Burian.
(BURNS, ther.
open treatment (Cz))

HRUSKA, Vladimir; SEDLACEK, Jaroslav

Contribution to the pathology of Meckel's diverticulum. Rozhl.
chir. 34 no.2:110-117 P '60.

1. Chirurgické odd. KUNZ Liberec, přednosta MUDr. V. Drasnar;
klinika plastické chirurgie KU Praha, přednosta akademik F. Burian.
(MECKEL'S DIVERTICULUM compl.)

SEDLACEK, Josef, Ing.

Properties of methacrylic resins. Cesk. stomat. no.6:161-166 Nov 54.

1. Z Vyzkumneho ustavu stomatologickeho v Praze, reditel doc.
MUDr J.Kostlan

(DENTAL MATERIALS
methacrylic resins)

SEDLACEK, Josef, Ing.: KYSELOVA, Jirina, Dr.

Molding of dental impressions. Cesk.stomat. no.4-5:232-240
J1 '55.

1. Z vyskumneho ustavu stomatologickeho v Praze, reditel doc.
Dr. Kostlan.

(DENTAL PROSTHESIS,
impression taking)

COUNTRY : CZECHOSLOVAKIA
 CATEGORY : Chemical Technology. Chemical Products and Their Uses. Part 4. Synthetic Polymers. Plastics
 ABS. JOUR. : RZKhim., No. 1 1960, No. 2996
 AUTHOR : Sedláček, J.
 INST. :
 TITLE : Residual Monomer in the Rapidly Polymerizing Synthetic Resin "Duracryl"
 ORIG. PUB. : Stomatol. spravy OJS, 1958, No 2-3, 3-14
 ABSTRACT : The effect of various factors upon the process of curing the synthetic resin "Duracryl" which is used for dental prosthesis was studied. The degree of conversion of the monomer into the polymer was determined by titration of the residual monomer (methyl methacrylate) with a bromide-bromate mixture. It was established that the sharpest fall in the content of free monomer occurs during the first 8 hours after
 CARD: 1/3

H-156

COUNTRY :
 CATEGORY :
 APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001447620002-5
 ABS. JOUR. : RZKhim., No. 1 1960, No. 2996
 AUTHOR :
 INST. :
 TITLE :
 ORIG. PUB. :
 ABSTRACT : introduction of benzoyl peroxide and dimethyl-
 cont'd p-teluidine into the composition. At 37° (tem-
 perature of the oral cavity) the polymeriza-
 tion of "Duracryl" proceeds with greater rapid-
 ity than at ~20°. It was shown that certain
 medicinal substances, for example eugenol,
 chlorophenol and tricresol, do not exert an
 essential influence upon the process of curing
 of the material under investigation; they can
 CARD: 2/3

CARD:

3/3

H-157

L 33550-66 EWP(w)/T/EWP(t)/ETI JD

ACC NR: AP6023479

SOURCE CODE: CZ/0026/66/011/001/0026/0044

AUTHOR: Sedlacek, Jan--Sedlachek, Ya. (Prague)

ORG: State Research Institute of Thermal Engineering, Prague (Statni vyzkumny ustav tepelne techniky)

TITLE: Additive processes with random jumps into the absorption barrier and their application to fatigue in metals

SOURCE: Aplikace matematiky, v. 11, no. 1, 1966, 26-44

TOPIC TAGS: stochastic process, material fracture, metal deformation, metal grain structure, mechanical fatigue

ABSTRACT: The paper deals with the theoretical foundations of the statistical interpretation of fracture phenomena in metals using stochastic process theory. The main interest is concentrated on the nature of fracture phenomena, for example, on the process of damage accumulation, the stochastic interpretation of which enables the real nature of the fracture mechanism to be expressed. At the same time an attempt is made to relate the stochastic development of successive damage of the metallic structure to the external loading processes. This approach makes possible the solution of more general problems dealing with the fatigue of structural components while in service.

Orig. art. has: 5 figures and 69 formulas. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 20 / SUBM DATE: 28May64 / ORIG REF: 007 / OTH REF: 004

Card 1/1

SEDLACEK, J.; NEVORAL, J.

Development of chick embryos after decapitation. Shorn. lek. 67
no.10:313-320 0 '65.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University
Karlovy v Praze (prednosta prof. dr. F. Karasek, DrSc.).

SEDLACEK, J.; MACEK, O.

First attempt to analyse the substance of the high-frequency impedance of cerebral tissue. Sborn. lek. 68 no.1:28-35
Ja ' 66.

1. Fyziologicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta - prof. dr. F. Karasek, DrSc.).

SEDLACHEK, Ian [Sedlacek, Jan] (Praga)

Development of the lignite open-pit mining in Czechoslovakia. Min
delo 17 no.8:44-47 Ag '62.

P/034/60/000/009/003/004
A222/A026

AUTHOR: Sedláček, Jan, Master of Mathematics

TITLE: Review of the uses, methods and practical examples of statistical checks in the Czechoslovak Machine Building Industry

PERIODICAL: Pomiary-Automatyka-Kontrola, no. 9, 1960, 361 - 366

TEXT: This review constitutes a report presented at a conference on SQC in Warsaw on September 22 and 23, 1959, and is a general summary of SQC activities in the Czechoslovak industry during the period 1949 - 1959. The summary comprises: I. High-precision SQC in time-piece manufacture, ball bearing manufacture and, to some extent, in automobile production; II SQC in consumer goods manufacture (nipples, slide fasteners, dental drills, toys, razor blades, etc); III SQC in non-mechanical operations (rubber calendaring, enameled wire and conventional conductor wire production) where statistical methods are used to control material consumption instead of quality; IV SQC in heavy machine building industries, where statistical control is restricted to checking operations proper instead of quality itself; V SQC in foundries and VI SQC in acceptance tests. Three major factors are mentioned which impair the progress of SQC in the CSR: poor knowledge of SQC

Card 1/2

P/034/60/000/009/003/004
A222/A026

Review of the uses, methods and practical examples of statistical checks in the
Czechoslovak Machine Building Industry

methods among production personnel, an aversion against SQC among executive personnel because of unpleasant deficiency exposures and the highly mathematical principle of SQC which discourages many of the personnel involved. There are 11 figures. ✓

Card 2/2

SEDLACEK, Jan, Mg.mat.

Mathematical statistics in evaluation of experimental research results. Tech praca 14 no.8:605-609 Ag '62.

1. Statni vyzkumny ustav tepelne techniky, Praha.

SEDLACEK, Jaroslav, inz. (Praha)

Development of the project of a subway in Prague. Inz. stavby
6 no.3:141-148 Mr '58.

SEDLACEK, Jiri

Contribution to the technology of rare earths. Sbor chem tech no.3,
part 1:71-140 '59.

1. Katedra anorganické technologie, Vysoká škola chemicko-technologická,
Praha.

SEDLACEK, Jiri

Laboratory study of alkali and chlorine production by mercury electrolysis. Sbor chem tech no.3, part 1:141-170 '59.

1. Katedra anorganické technologie, Vysoká škola chemicko-technologická, Praha.